

## PATENT COOPERATION TREATY

PCT

10/518368

INTERNATIONAL PRELIMINARY EXAMINATION REPORT  
(PCT Article 36 and Rule 70)


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Applicant's or agent's file reference 1978-9212	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/PEA/416)	
International application No. PCT/CH 03/00396	International filing date (day/month/year) 18.06.2003	Priority date (day/month/year) 19.06.2002
International Patent Classification (IPC) or both national classification and IPC C03C23/00		
Applicant FREWITT PRINTING SA		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 4 sheets, including this cover sheet.
- ☐ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).
- These annexes consist of a total of sheets.

3. This report contains indications relating to the following items:
- I ☒ Basis of the opinion
  - II ☐ Priority
  - III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
  - IV ☐ Lack of unity of invention
  - V ☒ Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
  - VI ☐ Certain documents cited
  - VII ☐ Certain defects in the international application
  - VIII ☐ Certain observations on the international application

Date of submission of the demand  19.01.2004	Date of completion of this report  01.04.2004
Name and mailing address of the international preliminary examining authority:   European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016	Authorized Officer  Van Bommel, L  Telephone No. +31 70 340-2747



**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT**

International application No. **PCT/CH 03/00396**

**I. Basis of the report**

1. With regard to the **elements** of the international application (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)*):

**Description, Pages**

1-17 as originally filed

**Claims, Numbers**

1-35 as originally filed

**Drawings, Sheets**

1/5-5/5 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
- ☐ the claims, Nos.:
- ☐ the drawings, sheets:

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT**

International application No. **PCT/CH 03/00396**

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

*(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)*

6. Additional observations, if necessary:

**V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Yes: Claims	1-35
	No: Claims	
Inventive step (IS)	Yes: Claims	1-35
	No: Claims	
Industrial applicability (IA)	Yes: Claims	1-35
	No: Claims	

2. Citations and explanations

**see separate sheet**

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/CH03/00396

**Re Item V**

**Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

**1. Documents**

Reference is made to the following documents:

- D1: 'PRODUCT NEWS' SPRECHSAAL, VERLAG DES SPRECHSAAL MULLER UND SCHMIDT. COBURG, DE, vol. 121, no. 9, 1988, page 708,710,712,71 XP000021087 ISSN: 0341-0676 cited in the application
- D2: BUERHOP CLAUDIA ET AL: 'Surface treatment of glass and ceramics using XeCl excimer laser radiation' GLASTECH BER;GLASTECHNISCHE BERICHTS MAR 1993, vol. 66, no. 3, March 1993, pages 61-67
- D3: DE 100 50 263 A (RODENSTOCK OPTIK G) 18 April 2002
- D4: US 2001/009707 A1 (DICKINSON JR JAMES E) 26 July 2001
- D5: PATENT ABSTRACTS OF JAPAN vol. 1997, no. 09, 30 September 1997 & JP 09 128578 A (PRECISION:KK;DAIICHI GLASS KK), 16 May 1997
- D6: EP-A-0 354 362 (ELPATRONIC AG) 14 February 1990

**2. Subject-matter**

Claims 1, 16, 29 and 33 define a method and devices for depositing a wipe-proof and rub-proof marking on glass receptacles with a pulsed laser light beam of a wavelength of <380nm, comprising detailed marking and detecting steps or means.

**3. Novelty and inventive step**

D1 - D4 all describe excimer laser marking of glass, e.g. glass bottles with laser light of e.g. 290 or 300 nm.

D5 describes laser coding of glass, using a CCD camera reader

D6 describes laser coding of plastic or glass bottles with a dot coding.

Cited prior art documents D1 - D4 neither describe, nor fairly suggest methods or devices comprising all technical features of the independent claims 1, 16, 29 or 33. Since the subject-matter of the claims solves the problem in the art, i.e. providing a method and devices for depositing a wipe-proof and rub-proof marking on glass receptacles, including marking and detecting steps or means, novelty as well as inventive step are acknowledged.